

ABSTRACT

[0099] A system and method for actuating one or more engine valves to produce one or more internal exhaust gas recirculation events is disclosed. The method of the present invention is a method of providing exhaust gas recirculation (EGR) in a multi-cylinder engine, each engine cylinder having at least one engine valve, intake and exhaust manifolds, and a valve actuator. The method comprises the steps of: imparting motion to the valve actuator; actuating the engine valve of a first engine cylinder responsive to the imparted motion; determining a first and a second engine parameter level; modifying the imparted motion responsive to the level of the first engine parameter level and the second engine parameter level to produce an exhaust gas recirculation event.